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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,702	05/22/2006	Alan James Coulson	0074-535083	8160
110	7590	06/22/2010	EXAMINER	
DANN, DORFMAN, HERRELL & SKILLMAN			TSE, YOUNG TOI	
1601 MARKET STREET				
SUITE 2400			ART UNIT	PAPER NUMBER
PHILADELPHIA, PA 19103-2307			2611	
			MAIL DATE	DELIVERY MODE
			06/22/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/561,702	COULSON, ALAN JAMES	
	Examiner	Art Unit	
	Young T. Tse	2611	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 24 March 2010.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-7 and 9-20 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 1,2,6,10-18 and 20 is/are allowed.

6) Claim(s) _____ is/are rejected.

7) Claim(s) 3-5,7,9 and 19 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 24 March 2010 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see pages 16-19, filed on March 24, 2010, with respect to 35 U.S.C. 112, first paragraph have been fully considered and are persuasive. The rejection of claims 11-7 and 9-20 has been withdrawn.

Drawings

2. The drawings were received on March 24, 2010. These drawings are acceptable.

Claim Objections

3. Claims 3-5, 7, 9 and 19 are objected to because of the following informalities:
Claim 3, line 5, the phrase "the output of the DFT" is suggested change to "the performance of the forward DFT" because claim 3 is a method claim and there is no output for the forward DFT.

Claim 4 depends from the objection of claim 3, therefore it is also objected.

Claim 5, lines 2-3, "one digital phase lock loop" is suggested change to "one of a plurality of digital phase lock loops".

Claim 7, line 2, "each phase lock loop" is suggested change to "each of the plurality of digital phase lock loops".

Claim 9, line 2, "with a" should be "with" and line 3, "from the phase lock loop" is suggested change to "from the plurality of digital phase lock loops".

Claim 19, line 2, "from the phase lock loop" is suggested change to "from a plurality of phase lock loops".

Appropriate correction is required.

Allowable Subject Matter

4. Claims 1-2, 6, 10-18 and 20 are allowed.
5. Claims 3-5, 7, 9 and 19 would be allowable if rewritten or amended to overcome the objection(s) set forth in this Office action.

Conclusion

6. This application is in condition for allowance except for the following formal matters:

The claimed objections of claims 3-5, 7, 9 and 19 described in paragraph 3 above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 25 USPQ 74, 453 O.G. 213, (Comm'r Pat. 1935).

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Young T. Tse whose telephone number is 571- 272-3051. The examiner can normally be reached on Monday-Friday 10:00-6:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on 571- 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Young T. Tse/
Primary Examiner, Art Unit 2611